



BMC

v.02.05

User Manual

Version 1.2

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Chapter 1: Overview

The SV300 server is designed with server management chip, so it can be remotely accessed and monitored by using an internet browser. To remotely activate the server and monitor the system status, log on to the specific IP address provided by the supplier(static), or IP assigned by DHCP server(DHCP).

1.1 Login

After entering the IP address of the designated SV300 server, you will immediately be prompted with the BMC login page.

The image shows a web-based login form for the BMC. It has a light blue background. There are two input fields: one for 'Username:' and one for 'Password:'. Below the password field is a blue link that says 'Forgot Password?'. At the bottom of the form is a button labeled 'Login'.

Required Browser Settings

1. Allow popups from this site ✓
2. Allow file download from this site. (How to )
3. Enable javascript for this site ✓
4. Enable cookies for this site ✓

Log in the system with the Username of **[admin]** and Password of **[admin]**, and then click **OK**.

Note:

Please consult with the system provider for the correct username and password

Chapter 2: BMC Monitoring

The monitoring interface consists of 8 major pages. They are Dashboard, FRU Information, Server Health, Configuration, Remote Control, Auto Video Recording, Maintenance, Firmware Update, which will be illustrated in later sections.

2.1 Dashboard

The first page is the Dashboard page. The dashboard page contains **Device Information, Sensor Monitoring, Event Logs, Network Information** and **Remote Control**.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

Dashboard

Dashboard gives the overall information about the status of the device and remote server.

Device Information
Firmware Revision: 1.5.30871
Firmware Build Time: Oct 8 2012 22:42:21 CST

Network Information [\(Edit\)](#)
MAC Address: F8:0F:41:F0:4E:D2
V4 Network Mode: Static
IPv4 Address: 192.168.2.1
V6 Network Mode: DHCP
IPv6 Address: ::

Remote Control [Launch](#)

Refresh 1024 x 768

Sensor Monitoring

Status	Sensor	Reading	
●	Watchdog2	0x8000	⚡
●	CPU0 Status	0x8000	⚡
●	CPU1 Status	0x8000	⚡
●	Memory ECC	0x8000	⚡
●	CPU0 Temp	49 ° C	⚡
●	CPU1 Temp	62 ° C	⚡
●	BIOS Event	0x8000	⚡
●	DIMM Zone0 Temp	33 ° C	⚡
●	DIMM Zone1 Temp	36 ° C	⚡
●	DIMM Zone2 Temp	33 ° C	⚡
●	DIMM Zone3 Temp	41 ° C	⚡
●	PCH Temp	43 ° C	⚡
●	PCIe Zone TempZP	42 ° C	⚡
●	CPU1 Outlet Temp	31 ° C	⚡
●	MB Inlet Temp	34 ° C	⚡
●	HDD Bak MB1 Temp	38 ° C	⚡
●	PVCCP_CPU0	0.805 Volts	⚡
●	PVCCP_CPU1	0.81 Volts	⚡
●	Current_12V_PSU1	19.8 Amps	⚡
●	Current_12V_PSU2	0 Amps	⚡
●	Sys Pwr Monitor	0x8001	⚡
●	PSU1 Status	0x8001	⚡
●	PSU2 Status	0x800D	⚡
●	Power Unit	0x8000	⚡
●	SEL	0x8000	⚡
●	NMI Action	0x8000	⚡
●	FAN1-1	5700 RPM	⚡
●	FAN1-2	4850 RPM	⚡
●	FAN2-1	5450 RPM	⚡
●	FAN2-2	4800 RPM	⚡
●	FAN3-1	5700 RPM	⚡
●	FAN3-2	4850 RPM	⚡
●	FAN4-1	5700 RPM	⚡
●	FAN4-2	4800 RPM	⚡
●	Watchdog	0x8000	⚡

Event Logs

- Unknown (0.71%)
- HDD Bak MB1 Temp (1.15%)
- Current_12V_PSU2 (0.19%)
- PSU2 Status (0.14%)
- PSU1 Status (0.02%)
- Sys Pwr Monitor (0.02%)
- Free Space (94.75%)

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SV300 BMC User Manual

2.2 FRU Information

FRU literally means Field Replaceable Unit. This page gives detailed information of the various FRU sections presented in this system.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording

Field Replaceable Unit(FRU)

This page gives detailed information for the various FRU devices present in this system.

Basic Information:

FRU Device ID	0
FRU Device Name	BMC_FRU

Chassis Information:

Chassis Information Area Format Version	1
Chassis Type	Main Server Chassis
Chassis Part Number	
Chassis Serial Number	
Chassis Extra	

Board Information:

Board Information Area Format Version	1
Language	0
Manufacture Date Time	Mon Aug 13 16:21:00 2012
Board Manufacturer	Wiwynn
Board Product Name	SLTTree
Board Serial Number	
Board Part Number	
FRU File ID	
Board Extra	

Product Information:

Product Information Area Format Version	1
Language	0
Manufacturer Name	Wiwynn
Product Name	SV300
Product Part Number	
Product Version	1
Product Serial Number	123456789012
Asset Tag	
FRU File ID	
Product Extra	

2.3 Server Health

This **Server Health** page allows you to view the Sensor Readings, Event Log, System and Audit Log.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

Sensor Readings

Sensor Readings
Event Log
System and Audit Log

All sensor related information will be displayed in this table. Click on a record to toggle (ON / OFF) the live widget for that particular sensor.

All Sensors

Sensor Name ↕	Status ↕	Current Reading ↕
Watchdog2	All deasserted	0x8000
CPU0 Status	All deasserted	0x8000
CPU1 Status	All deasserted	0x8000
Memory ECC	All deasserted	0x8000
CPU0 Temp	Normal	49 ° C
CPU1 Temp	Normal	62 ° C
BIOS Event	All deasserted	0x8000
DIMM Zone0 Temp	Normal	33 ° C
DIMM Zone1 Temp	Normal	36 ° C
DIMM Zone2 Temp	Normal	33 ° C
DIMM Zone3 Temp	Normal	41 ° C
PCH Temp	Normal	43 ° C
PCIe Zone TempZP	Normal	42 ° C
CPU1 Outlet Temp	Normal	31 ° C
MB Inlet Temp	Normal	34 ° C
HDD Bak MB1 Temp	Normal	38 ° C
HDD Bak MB2 Temp	Normal	29 ° C
3.3V Standby	Normal	3.24 Volts
5V Standby	Normal	5 Volts
3.3V	Normal	3.27 Volts
5V	Normal	5 Volts
12V	Normal	12 Volts
3V Battery	Normal	3 Volts
1.1V Standby	Normal	1.07 Volts
1.8V Standby	Normal	1.77 Volts
PVDDQ_AB	Normal	1.339 Volts

Watchdog2: 0x8000

Thresholds for this sensor

Lower Non-Recoverable (LNR): N/A
Lower Critical (LC): N/A
Lower Non-Critical (LNC): N/A

Graphical View of this sensor's event

LNR (0)
LC (0)
LNC (0)
UNR (0)
UC (0)
UNC (0)
Other (0)
Discrete (0)

048

2.3.1 Sensor Readings

All sensor related information will be displayed here.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video

Sensor Readings

All sensor related information will be displayed here. Double click on a record to toggle (ON / OFF) the live widget

All Sensors
All Sensors
Temperature Sensors
Voltage Sensors
Current Sensors
Fan Sensors
Processor
Power Supply
Power Unit
Memory
System Firmware Progress
Event Logging Disabled
Critical Interrupt
System ACPI Power State
Watchdog 2
DIMM Zone3 Temp
PCH Temp
PCIe Zone Temp

Status	Current Reading
All deasserted	0x8000
All deasserted	0x8000
All deasserted	0x8000
All deasserted	0x8000
Normal	49 ° C
Normal	62 ° C
All deasserted	0x8000
Normal	33 ° C
Normal	36 ° C
Normal	33 ° C
Normal	41 ° C
Normal	43 ° C
Normal	47 ° C

Sensors options:

All Sensors
Temperature Sensors
Voltage Sensors
Current Sensors
Fan Sensors
Processor
Power Supply
Power Unit
Memory
System Firmware Progress
Event Logging Disabled
Critical Interrupt
System ACPI Power State
Watchdog 2

Double-click the specific sensor (such as CPU0 Temp) or click “ON” (at the right side) to pop a LIVE WIDGET window.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

All Sensors
Sensor Count: 47 sensors

Sensor Name	Status	Current Reading
CPU0 Status	All deasserted	0x0000
CPU1 Status	All deasserted	0x0000
Memory ECC	All deasserted	0x0000
CPU0 Temp	Normal	33 ° C
CPU1 Temp	Normal	34 ° C
BIOS Event	All deasserted	0x0000
DIMM Zone0 Temp	Normal	29 ° C
DIMM Zone1 Temp	Normal	28 ° C
DIMM Zone2 Temp	Normal	27 ° C
DIMM Zone3 Temp	Normal	27 ° C
PCH Temp	Normal	43 ° C
PCIe Zone TempZP	Normal	34 ° C
CPU1 Outlet Temp	Normal	29 ° C
MB Inlet Temp	Normal	26 ° C
HDD Bakt MB1 Temp	Normal	25 ° C
HDD Bakt MB2 Temp	Normal	22 ° C
3.3V Standby	Normal	3.27 Volts
5V Standby	Normal	5.049 Volts
3.3V	Normal	3.285 Volts
5V	Normal	5 Volts
12V	Normal	12.1 Volts
3V Battery	Normal	3 Volts
1.1V Standby	Normal	1.085 Volts

CPU0 Temp: 33 ° C

NORMAL

LIVE WIDGET OFF | On

ON

Thresholds for this sensor

Lower Non-Recoverable (LNR):	0 ° C	Upper Non-Recoverable (UNR):	0 ° C
Lower Critical (LC):	0 ° C	Upper Critical (UC):	90 ° C
Lower Non-Critical (LNC):	0 ° C	Upper Non-Critical (UNC):	88 ° C

Graphical View of this sensor's events

LNR	(0)
LC	(0)
LNC	(0)
UNR	(0)
UC	(0)
UNC	(0)
Other	(0)

The LIVE WIDGET window appears at the left bottom side, and you can click “OFF” (at the right side) to remove it.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

All Sensors
Sensor Count: 47 sensors

Sensor Name	Status	Current Reading
CPU0 Status	All deasserted	0x0000
CPU1 Status	All deasserted	0x0000
Memory ECC	All deasserted	0x0000
CPU0 Temp	Normal	33 ° C
CPU1 Temp	Normal	34 ° C
BIOS Event	All deasserted	0x0000
DIMM Zone0 Temp	Normal	29 ° C
DIMM Zone1 Temp	Normal	28 ° C
DIMM Zone2 Temp	Normal	27 ° C
DIMM Zone3 Temp	Normal	27 ° C
PCH Temp	Normal	43 ° C
PCIe Zone TempZP	Normal	34 ° C
		29 ° C
		26 ° C
		25 ° C
		22 ° C
		5.049 Volts
		3.285 Volts
		5 Volts
		12.1 Volts
		3 Volts
		1.085 Volts

CPU0 Temp: 33 ° C

NORMAL

LIVE WIDGET On | Off

OFF

Thresholds for this sensor

Lower Non-Recoverable (LNR):	0 ° C	Upper Non-Recoverable (UNR):	0 ° C
Lower Critical (LC):	0 ° C	Upper Critical (UC):	90 ° C
Lower Non-Critical (LNC):	0 ° C	Upper Non-Critical (UNC):	88 ° C

Graphical View of this sensor's events

LNR	(0)
LC	(0)
LNC	(0)
UNR	(0)
UC	(0)
UNC	(0)
Other	(0)

CPU0 Temp

Live Reading: 33 ° C

LIVE WIDGET window

2.3.2 Event Log

Events generated by the system will be logged here. Double-click on a record to see description.



Event Log

Events generated by the system will be logged here. Double-click on a record to see description.

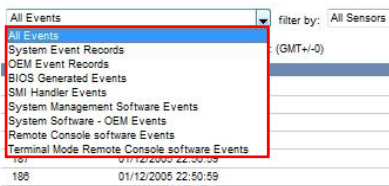


☒ BMC Timezone ☐ Client Timezone UTC Offset: (GMT+/-0)

Event ID	Time Stamp	Sensor Name
191	01/13/2005 00:25:31	Unknown
190	01/13/2005 00:25:31	Unknown

Event Log

Events generated by the system will be logged here. Double-click on a record to see description.



Events options:

All Events
System Event Records
OEM Event Records
BIOS Generated Events
SMI Handler Events
System Management Software Events
System Software – OEM Events
Remote Console Software Events
Terminal Mode Remote Console Software Events

The listing items can be filtered by different sensor items.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Vite

Event Log

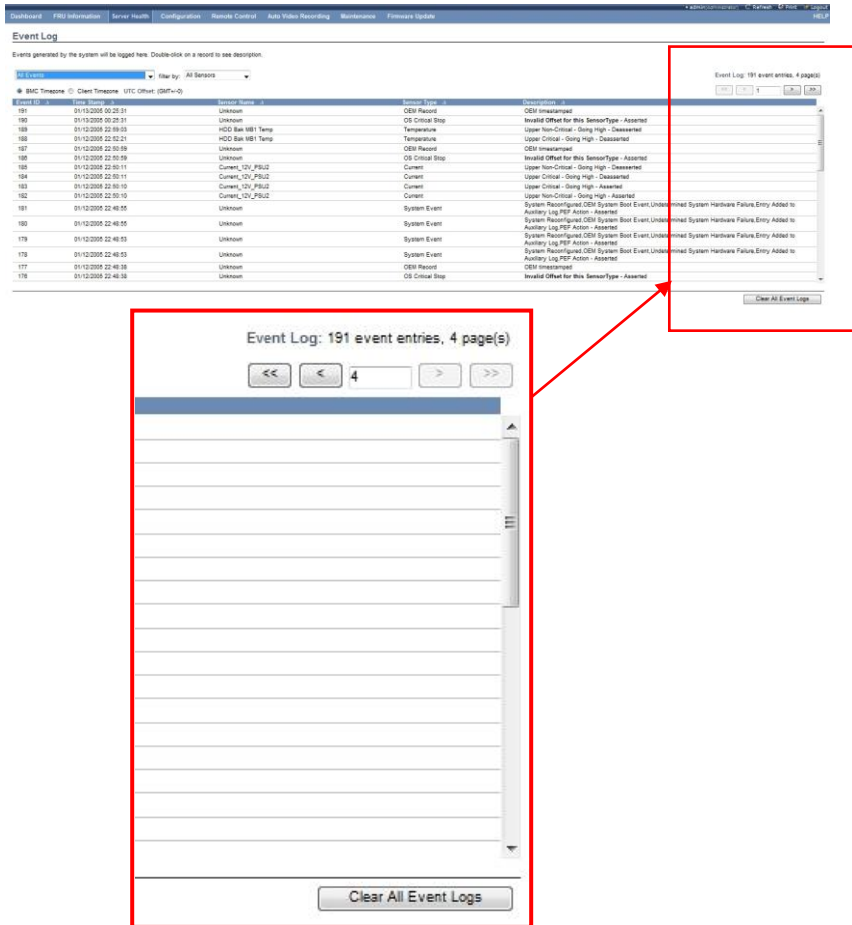
Events generated by the system will be logged here. Double-click on a record to see description.

All Events
filter by:

All Sensors
Watchdog2
CPU0 Status
CPU1 Status
Memory ECC
CPU0 Temp
CPU1 Temp
BIOS Event
DIMM Zone0 Temp
DIMM Zone1 Temp
DIMM Zone2 Temp
DIMM Zone3 Temp
PCH Temp
PCIE Zone TempZP
CPU1 Outlet Temp
MB Inlet Temp
HDD Bak MB1 Temp
HDD Bak MB2 Temp
3.3V Standby
5V Standby
3.3V
5V
12V
3V Battery
1.1V Standby
1.8V Standby
PVDDQ_A6
PVDDQ_CD
PVDDQ_EF
PVDDQ_GH
PVCCP_CPU0
PVCCP_CPU1
Current_12V_PSU1
Current_12V_PSU2
Sys Pwr Monitor
PSU1 Status
PSU2 Status
Power Unit
SEL
NMI Action
FAN1-1
FAN1-2
FAN2-1
FAN2-2
FAN3-1
FAN3-2
FAN4-1
FAN4-2
Watchdog

Event ID	Time Stamp	
191	01/13/2005 00:25:31	
190	01/13/2005 00:25:31	
189	01/12/2005 22:59:03	
188	01/12/2005 22:52:21	
187	01/12/2005 22:50:59	
186	01/12/2005 22:50:59	
185	01/12/2005 22:50:11	
184	01/12/2005 22:50:11	
183	01/12/2005 22:50:10	
182	01/12/2005 22:50:10	
181	01/12/2005 22:48:55	
180	01/12/2005 22:48:55	
179	01/12/2005 22:48:53	
178	01/12/2005 22:48:53	
177	01/12/2005 22:48:38	
176	01/12/2005 22:48:38	
185	01/12/2005 22:50:11	
184	01/12/2005 22:50:11	
183	01/12/2005 22:50:10	
182	01/12/2005 22:50:10	
181	01/12/2005 22:48:55	
180	01/12/2005 22:48:55	
179	01/12/2005 22:48:53	
178	01/12/2005 22:48:53	
177	01/12/2005 22:48:38	
176	01/12/2005 22:48:38	

The display list may consist of many pages. You may click backward or forward button to check the rest of the pages. Or, click on the [Clear All Event Logs] to clear all of the logs.



The screenshot displays the 'Event Log' section of a BMC interface. At the top, there are tabs for Dashboard, BMC Information, Server Health, Configuration, Remote Control, Audio Video Recording, Maintenance, and Firmware Update. The 'Event Log' tab is active, showing a list of events generated by the system. The list includes columns for Event ID, Time, Sensor Name, Sensor Type, and Description. A red box highlights the 'Event Log: 191 event entries, 4 page(s)' summary and the 'Clear All Event Logs' button. Another red box highlights the detailed view of event 191, which shows the event description and the 'Clear All Event Logs' button.

Event ID	Time	Sensor Name	Sensor Type	Description
189	01/12/2009 00:25:31	UNKNOWN	OS Record	OSB Unstamped
189	01/12/2009 00:25:31	UNKNOWN	OS Critical Stop	Invalid Offset for this SensorType - Assented
188	01/12/2009 22:59:53	HDD Bnk WB1 Temp	Temperature	Upper Non-Critical - Going High - Cleared
188	01/12/2009 22:52:21	HDD Bnk WB1 Temp	Temperature	Upper Critical - Going High - Cleared
187	01/12/2009 22:50:59	UNKNOWN	OSB Record	OSB Unstamped
186	01/12/2009 22:50:59	UNKNOWN	OS Critical Stop	Invalid Offset for this SensorType - Assented
186	01/12/2009 22:50:11	Current_CV_PBU2	Current	Upper Non-Critical - Going High - Cleared
184	01/12/2009 22:50:11	Current_CV_PBU2	Current	Upper Critical - Going High - Cleared
183	01/12/2009 22:50:10	Current_CV_PBU2	Current	Upper Non-Critical - Going High - Assented
182	01/12/2009 22:50:10	Current_CV_PBU2	Current	Upper Non-Critical - Going High - Assented
181	01/12/2009 22:46:55	UNKNOWN	System Event	System Reconfigured OSB System Boot Event Unstamped System Hardware Failure Entry Added to Audit Log RPT Action - Assented
180	01/12/2009 22:46:55	UNKNOWN	System Event	System Reconfigured OSB System Boot Event Unstamped System Hardware Failure Entry Added to Audit Log RPT Action - Assented
179	01/12/2009 22:46:55	UNKNOWN	System Event	System Reconfigured OSB System Boot Event Unstamped System Hardware Failure Entry Added to Audit Log RPT Action - Assented
178	01/12/2009 22:46:55	UNKNOWN	System Event	System Reconfigured OSB System Boot Event Unstamped System Hardware Failure Entry Added to Audit Log RPT Action - Assented
177	01/12/2009 22:46:55	UNKNOWN	OSB Record	OSB Unstamped
176	01/12/2009 22:46:55	UNKNOWN	OS Critical Stop	Invalid Offset for this SensorType - Assented

Event Log: 191 event entries, 4 page(s)

Clear All Event Logs

2.3.3 System and Audit Log

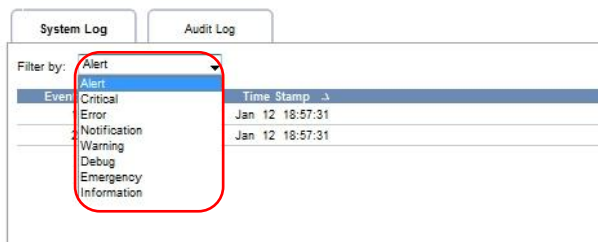
This page displays System Log and Audit Log. There are two tabs in the page. Click on the specific tab to find the information you need.



The log list can be filtered by the following severity criteria.

System & Audit Logs

This page displays logs of system and audit events for this device (if the options have been configured).

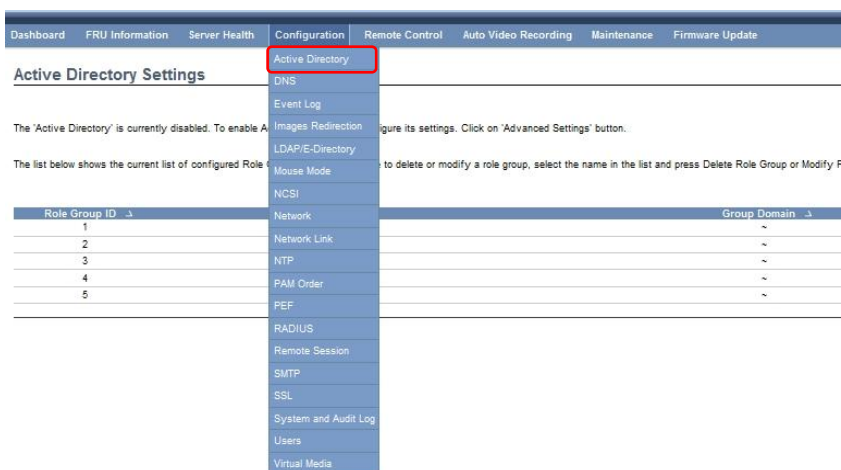


Severity:

Alert
Critical
Error
Notification
Warning
Debug
Emergency
Information

2.4 Configuration

The **Configuration** page allows you to configure settings, such as Active Directory, DNS, Event Log, Images Redirection, LDAP/E-Directory, Mouse Mode, NCSI, Network, Network Link, NTP, PAM Order, PEF, RADIUS, Remote Session, SMTP, SSL, System and Audit Log, Users and Virtual Media.



The screenshot shows the BMC Configuration page. The top navigation bar includes: Dashboard, FRU Information, Server Health, Configuration, Remote Control, Auto Video Recording, Maintenance, and Firmware Update. The 'Configuration' tab is active, and a dropdown menu is open, highlighting 'Active Directory'. Other items in the menu include DNS, Event Log, Images Redirection, LDAP/E-Directory, Mouse Mode, NCSI, Network, Network Link, NTP, PAM Order, PEF, RADIUS, Remote Session, SMTP, SSL, System and Audit Log, Users, and Virtual Media.

Below the sidebar, the 'Active Directory Settings' section is visible. It contains a message: 'The 'Active Directory' is currently disabled. To enable Active Directory, click on the 'Advanced Settings' button. To configure its settings, click on 'Advanced Settings' button.' Below this is a table showing the current list of configured Role Groups.

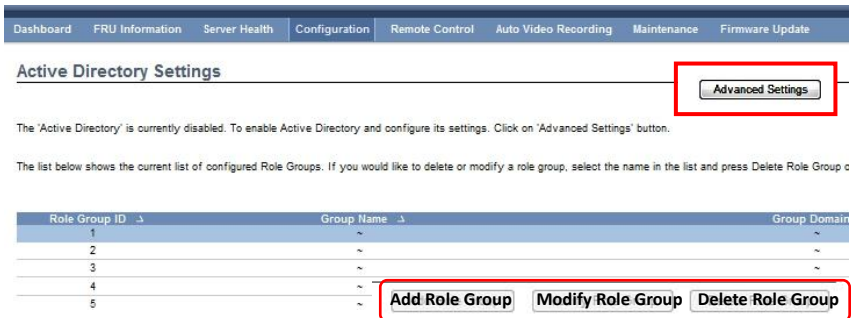
Role Group ID	Role Group Name	Group Domain
1	Network	~
2	Network Link	~
3	NTP	~
4	PAM Order	~
5	PEF	~

2.4.1 Active Directory

Active Directory is designed to handle a large number of Role Groups.

The Active Directory is currently disabled. To enable Active Directory and configure its settings. Click on **[Advanced Settings]** button.

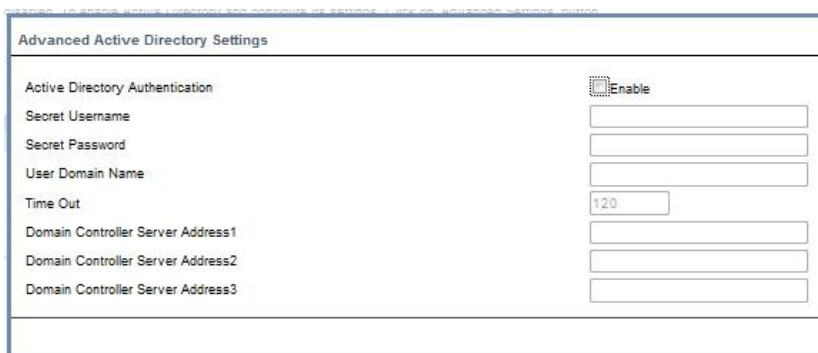
The list below shows the current list of configured Role Groups. If you would like to delete or modify a role group, select the name in the list and press Delete Role Group or Modify Role Group. To add a new Role Group, select an blank slot and press Add Role Group.



Role Group ID	Group Name	Group Domain
1	~	~
2	~	~
3	~	~
4	~	~
5	~	~

[Add Role Group](#)
[Modify Role Group](#)
[Delete Role Group](#)

Advanced Settings



Advanced Active Directory Settings

Active Directory Authentication ☐ Enable

Secret Username

Secret Password

User Domain Name

Time Out

Domain Controller Server Address1

Domain Controller Server Address2

Domain Controller Server Address3

2.4.2 DNS

The **DNS Server Settings** page allows you to manage DNS settings of the device.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

DNS Server Settings

Manage DNS settings of the device.

Host Configuration

Host Settings Manual

Host Name

Register BMC

eth0 ☒ Register BMC
☒ Direct Dynamic DNS ☐ DHCP Client FQDN

eth1 ☒ Register BMC
☒ Direct Dynamic DNS ☐ DHCP Client FQDN

Domain Name Configuration

Domain Settings eth0_v4

Domain Name

Domain Name Server Configuration

DNS Server Settings eth0

IP Priority ☒ IPv4 ☐ IPv6

DNS Server1

DNS Server2

DNS Server3

You may configure the Host Settings, Host Name, Register BMC, Domain Name and Domain Name Server.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video

DNS Server Settings

Manage DNS settings of the device.

Host Configuration
Host Settings
Host Name

Manual
Manual
Automatic

Register BMC
eth0
eth1

☒ Register BMC
☒ Direct Dynamic DNS ☐ DHCP Client FQDN
☒ Register BMC
☒ Direct Dynamic DNS ☐ DHCP Client FQDN

Domain Name Configuration
Domain Settings
Domain Name

eth0_v4
Manual
eth0_v4
eth0_v6
eth1_v6

Domain Name Server Configuration
DNS Server Settings
IP Priority
DNS Server1
DNS Server2
DNS Server3

eth0
☒ IPv4 ☐ IPv6

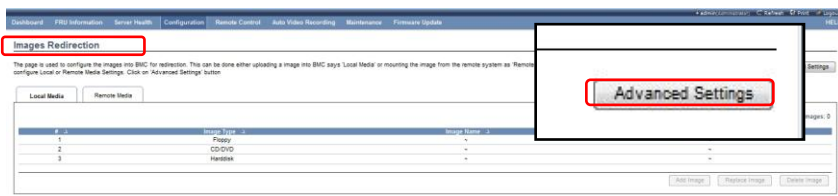
2.4.3 Event Log

This page is used to configure the System Event log information.



2.4.4 Images Redirection

This page is used to configure the images into BMC for redirection. This can be done either uploading an image into BMC (Local Media) or mounting the image from the remote system (Remote Media). Local and Remote Media are currently disabled.

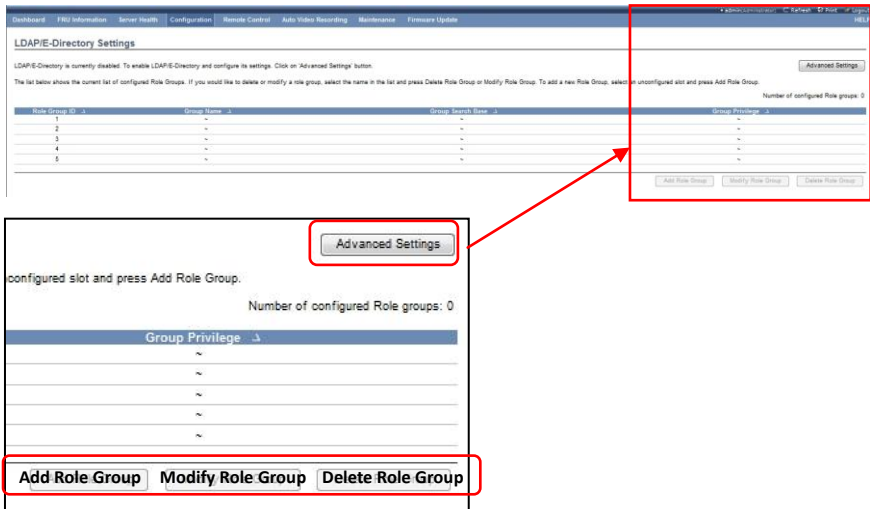


To configure Local or Remote Media Settings, click on **“Advanced Settings”** button.

Advanced Media Settings	
Local Media Support	<input type="checkbox"/> Enable
Remote Media Support	<input type="checkbox"/> Enable
Server Address	<input type="text"/>
Source Path	<input type="text"/>
Share Type	NFS <input type="button" value="v"/>
Username	<input type="text"/>
Password	<input type="text"/>
Domain Name	<input type="text"/>

2.4.5 LDAP/E-Directory Settings

The LDAP/E-Directory is currently disabled. To enable LDAP/E-Directory and configure its settings, click on “**Advanced Settings**”. The list below shows the current list of configured Role Groups. If you would like to delete or modify a role group, select the name in the list and press **Delete Role Group** or **Modify Role Group**. To add a new Role Group, select a blank slot and press **Add Role Group**.



LDAP/E-Directory Settings

LDAP/E-Directory is currently disabled. To enable LDAP/E-Directory and configure its settings, click on Advanced Settings button.

The list below shows the current list of configured Role Groups. If you would like to delete or modify a role group, select the name in the list and press Delete Role Group or Modify Role Group. To add a new Role Group, select an unconfigured slot and press Add Role Group.

Role Group ID	Group Name	Group Search Base	Group Privilege
1	~	~	~
2	~	~	~
3	~	~	~
4	~	~	~
5	~	~	~

Number of configured Role groups: 0

Advanced Settings

Number of configured Role groups: 0

Group Privilege

~

~

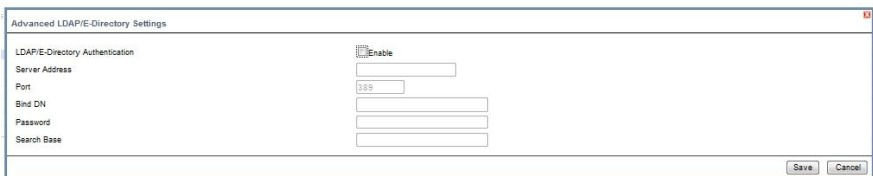
~

~

~

Add Role Group Modify Role Group Delete Role Group

Advanced Settings



Advanced LDAP/E-Directory Settings

LDAP/E-Directory Authentication

Server Address

Port

Bind DN

Password

Search Base

Enable

Save Cancel

2.4.6 Mouse Mode

You may modify the Redirection console mouse mode settings in this page.

[Dashboard](#) [FRU Information](#) [Server Health](#) [Configuration](#) [Remote Control](#)

Mouse Mode Settings

Redirection console mouse mode settings can be modified here.

Current Mouse Mode : ABSOLUTE

- ☒ Set Mode to Relative (Recommended when server OS is Linux)
- ☐ Set Mode to Absolute (Recommended when server OS is Windows)
- ☐ Set Mode to Other Mode (Recommended for SLES-11 OS Installation)

2.4.7 Network

There are various network settings in this page. You may adjust IPv4, IPv6 and VLAN Configuration.

Dashboard	FRU Information	Server Health	Configuration	Remote Control	Auto Video Recording	Maintenance	Firmware Update
Network Settings							
Manage network settings of the device.							
LAN Settings		<input checked="" type="checkbox"/> Enable					
MAC Address		<input type="text" value="F8:0F:41:F0:4E:D2"/>					
IPv4 Configuration							
Obtain an IP address automatically		<input type="checkbox"/> Use DHCP					
IPv4 Address		<input type="text" value="192.168.2.1"/>					
Subnet Mask		<input type="text" value="255.255.255.0"/>					
Default Gateway		<input type="text" value="0.0.0.0"/>					
IPv6 Configuration							
IPv6 Settings		<input checked="" type="checkbox"/> Enable					
Obtain an IP address automatically		<input checked="" type="checkbox"/> Use DHCP					
IPv6 Address		<input type="text" value="::"/>					
Subnet Prefix length		<input type="text" value="0"/>					
Default Gateway		<input type="text" value="::"/>					
VLAN Configuration							
VLAN Settings		<input type="checkbox"/> Enable					
VLAN ID		<input type="text" value="0"/>					
VLAN Priority		<input type="text" value="0"/>					

2.4.8 Network Link

In this page, you may adjust the network link settings of LAN interface, Auto Negotiation, Link Speed and Duplex Mode setting.

[Dashboard](#) [FRU Information](#) [Server Health](#) [Configuration](#) [Remote Control](#) [Auto Video Recording](#) [Maintenance](#) [Firmware Update](#)

Network Link Configuration

Manage network link settings of the device.

Auto Negotiation	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Link Speed	<div>1000 Mbps</div>
Duplex Mode	<div>Full Duplex</div>

2.4.9 NTP

In this page, you may configure the NTP server, view and modify the Date & Time settings of NTP for BMC.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

NTP Settings

Here you can either configure the NTP server or view and modify the device's Date & Time settings.

Date:

Time:
(hh:mm:ss)

UTC Timezone:

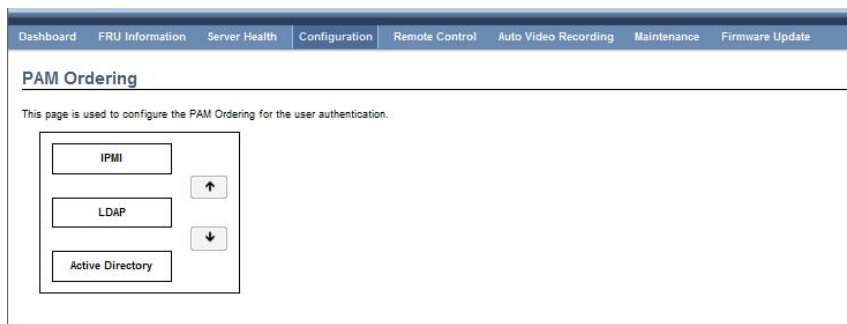
Primary NTP Server:

Secondary NTP Server:

☒ Automatically synchronize Date & Time with NTP Server

2.4.10 PAM Order

This page is used to configure the PAM Ordering for the user authentication.



The screenshot shows the 'PAM Ordering' configuration page. At the top is a navigation bar with the following tabs: Dashboard, FRU Information, Server Health, Configuration (selected), Remote Control, Auto Video Recording, Maintenance, and Firmware Update. Below the navigation bar, the page title 'PAM Ordering' is displayed. A descriptive text states: 'This page is used to configure the PAM Ordering for the user authentication.' The main configuration area contains a list of three authentication methods: IPMI, LDAP, and Active Directory. To the right of this list are two buttons: an upward arrow (↑) and a downward arrow (↓), used for reordering the list.

2.4.11 PEF

A platform event is defined as an event that is originated directly from platform firmware (BIOS) or platform hardware (ASIC, chip set, or microcontroller) independently of the state of the operating system or system management hardware.

Use this page to configure Event Filter, Alert Policy and LAN Destination. To delete or modify a entry, select it in the list and press “Delete” or “Modify”. To add a new entry, select a blank slot and press “Add”.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

PEF Management

Use this page to configure Event Filter, Alert Policy and LAN Destination. To delete or modify a entry, select it in the list and press "Delete" or "Modify". To add a new entry, select an unconfigured slot and press "Add".

Event Filter
Alert Policy
LAN Destination

PEF ID	Filter Configuration	Event Filter Action	Event Severity
1	Disabled	~ [Power Down]	Unspecified
2	Disabled	~ [Power Down]	Unspecified
3	Disabled	[Alert]	Unspecified
4	Disabled	[Alert]	Unspecified

Add
Modify
Delete

Use this page to modify the existing Event Filter entry. Click **“Modify”** to accept the modification.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video

Modify Event Filter entry

Use this page to modify the existing Event Filter entry. Click 'Modify' to accept the modification.

Event Filter Configuration
PEF ID
1
Filter Configuration
☐ Enable
Event Severity
Unspecified

Filter Action configuration
Event Filter Action
☒ Alert
Power Action
Power Down
Alert Policy Number
1

Generator ID configuration
Generator ID Data
☒ Raw Data
Generator ID 1
0xFF
Generator ID 2
0xFF
Event Generator
☐ Slave Address
☐ System Software ID
Slave Address/Software ID
Channel Number
0
IPMB Device LUN
1

Sensor configuration
Sensor Type
Temperature Sensors
Sensor Name
CPU0 Temp
Event Options
Sensor Events

Lower Non-Critical
: ☐ Going Low ☐ Going High
Lower Critical
: ☐ Going Low ☐ Going High
Lower Non-Recoverable
: ☐ Going Low ☐ Going High
Upper Non-Critical
: ☐ Going Low ☐ Going High
Upper Critical
: ☐ Going Low ☐ Going High
Upper Non-Recoverable
: ☒ Going Low ☒ Going High

Event Data configuration
Event Trigger
1
Event Data 1 AND Mask
0
Event Data 1 Compare 1
0
Event Data 1 Compare 2
0

Event Data 2 configuration
Event Data 2 AND Mask
0
Event Data 2 Compare 1
0
Event Data 2 Compare 2
0

Event Data 3 configuration
Event Data 3 AND Mask
0
Event Data 3 Compare 1
0
Event Data 3 Compare 2
0

Sensor Events:

There are different assertion condition levels for different bit numbers. The abbreviation here represents different levels of the condition.

Event Options	Sensor Events
	Lower Non-Critical : <input type="checkbox"/> Going Low <input type="checkbox"/> Going High
	Lower Critical : <input type="checkbox"/> Going Low <input type="checkbox"/> Going High
	Lower Non-Recoverable : <input type="checkbox"/> Going Low <input type="checkbox"/> Going High
	Upper Non-Critical : <input type="checkbox"/> Going Low <input type="checkbox"/> Going High
	Upper Critical : <input type="checkbox"/> Going Low <input type="checkbox"/> Going High
	Upper Non-Recoverable : <input checked="" type="checkbox"/> Going Low <input checked="" type="checkbox"/> Going High
Sensor Events	

Abreviation	Full	Severity	Meaning
LNC	Lower Non-Critical		Similar to a Warning message
LC	Lower Critical		Worse than LNC
UNC	Upper Non-Critical		Similar to a Warning message
UC	Upper Critical		Worse than UNC
LNR	Lower Non-Recoverable		Unknown reason and untraceable and shows no parameter at all
UNR	Upper Non-Recoverable		Unknown reason and untraceable and shows no parameter at all

For example,

If you choose LNC going low for threshold for Fan 1, and when the figure of Fan 1 is going lower than the default parameter, then it will trigger the event.

Event Filter Configuration:

The **Event Severity** defines the severity of the event.

Event Severity	Unspecified
Filter Action configuration	Unspecified
Event Filter Action	Monitor
Power Action	Information
Alert Policy Number	Normal
	Non-Critical
	Critical
	Non-Recoverable
	1

The **Power Action** defines the action of the Power Supply.

Filter Action configuration	
Event Filter Action	<input checked="" type="checkbox"/> Alert
Power Action	Power Down
Alert Policy Number	None
	Power Down
	Power Reset
	Power Cycle
Generator ID configuration	

The **Sensor Type** is one of the most important factors to your configuration. Any unusual figures of these selected sensors will trigger the Event Filter Action.

Sensor configuration	
Sensor Type	Temperature Sensors
Sensor Name	All Sensors
Event Options	Temperature Sensors
	Voltage Sensors
	Current Sensors
	Fan Sensors
	Processor
	Power Supply
	Power Unit
	Memory
	System Firmware Progress
	Event Logging Disabled
	Critical Interrupt
	System ACPI Power State
	Watchdog 2
Sensor Events	Low <input type="checkbox"/> Going High
	Low <input type="checkbox"/> Going High
	Low <input type="checkbox"/> Going High
	Low <input type="checkbox"/> Going High
	Low <input type="checkbox"/> Going High
	Low <input checked="" type="checkbox"/> Going High

The **Sensor Name** varies to the selection of the Sensor Type.

If we chose Temperature Sensors as our Sensor Type, the Sensor Name will appear in the drop down list accordingly as follow.

Sensor configuration	
Sensor Type	Temperature Sensors
Sensor Name	CPU0 Temp
Event Options	<div> All Sensors CPU0 Temp CPU1 Temp DIMM Zone0 Temp DIMM Zone1 Temp DIMM Zone2 Temp DIMM Zone3 Temp PCH Temp PCIE Zone TempZP CPU1 Outlet Temp MB Inlet Temp HDD Bak MB1 Temp HDD Bak MB2 Temp </div>
Sensor Events	<div> Low <input type="checkbox"/> Low <input type="checkbox"/> Low <input type="checkbox"/> Low <input type="checkbox"/> Low <input type="checkbox"/> Low <input type="checkbox"/> Low <input checked="" type="checkbox"/> </div>
Event Data configuration	

If we chose **CPU0 Temp** as our Sensor Name, the Event Options will appear in the drop down list accordingly as follow.

Sensor configuration	
Sensor Type	Temperature Sensors
Sensor Name	CPU0 Temp
Event Options	<div> All Events All Events Sensor Events </div>
Event Data configuration	

The drop down list of **Voltage Sensors** as follow.

Sensor Type	Voltage Sensors
Sensor Name	All Sensors
Event Options	<div> All Sensors All Sensors 3.3V Standby 5V Standby 3.3V 5V 12V 3V Battery 1.1V Standby 1.8V Standby PVDDQ_AB PVDDQ_CD PVDDQ_EF PVDDQ_GH PVCCP_CPU0 PVCCP_CPU1 </div>
Event Data configuration	
Event Trigger	0
Event Data 1 AND Mask	
Event Data 1 Compare 1	
Event Data 1 Compare 2	
Event Data 2 configuration	
Event Data 2 AND Mask	0

The drop down list of **Current Sensors** as follow.

Sensor configuration	
Sensor Type	Current Sensors
Sensor Name	All Sensors
Event Options	<div> All Sensors Current_12V_PSU1 Current_12V_PSU2 </div>

The drop down list of **Fan Sensors** as follow.

Sensor configuration	
Sensor Type	Fan Sensors
Sensor Name	All Sensors
Event Options	<div> All Sensors FAN1-1 FAN1-2 FAN2-1 FAN2-2 FAN3-1 FAN3-2 FAN4-1 FAN4-2 </div>
Event Data configuration	
Event Trigger	
Event Data 1 AND Mask	
Event Data 1 Compare 1	0

The drop down list of **Processor** as follow.

Sensor configuration	
Sensor Type	Processor
Sensor Name	All Sensors
Event Options	<div> All Sensors CPU0 Status CPU1 Status </div>

The drop down list of **Power Supply** as follow.

Sensor configuration	
Sensor Type	Power Supply
Sensor Name	All Sensors
Event Options	<div> All Sensors PSU1 Status PSU2 Status </div>

The drop down list of **Power Unit** as follow.

Sensor configuration	
Sensor Type	Power Unit
Sensor Name	All Sensors
Event Options	All Sensors Power Unit

The drop down list of **Memory** as follow.

Sensor configuration	
Sensor Type	Memory
Sensor Name	All Sensors
Event Options	All Sensors Memory ECC

The drop down list of **System Firmware Progress** as follow.

Sensor configuration	
Sensor Type	System Firmware Progress
Sensor Name	All Sensors
Event Options	All Sensors BIOS Event

The drop down list of **Event Logging Disabled** as follow.

Sensor configuration	
Sensor Type	Event Logging Disabled
Sensor Name	All Sensors
Event Options	All Sensors SEL

The drop down list of **Critical Interrupt** as follow.

Sensor configuration	
Sensor Type	Critical Interrupt
Sensor Name	All Sensors
Event Options	All Sensors NMI Action

The drop down list of **System ACPI Power State** as follow.

Sensor configuration	
Sensor Type	System ACPI Power State ▼
Sensor Name	All Sensors ▼
Event Options	All Sensors Sys Pwr Monitor

The drop down list of **Watchdog 2** as follow.

Sensor configuration	
Sensor Type	Watchdog 2 ▼
Sensor Name	All Sensors ▼
Event Options	All Sensors Watchdog2 Watchdog

After all the settings are configured, you may click **Save** or **Cancel** to return to the main page of PEF.

2.4.12 Radius

Check the box below to enable RADIUS authentication and enter the required information to access the RADIUS server. Press the “Save” button to save your changes.

Dashboard	FRU Information	Server Health	Configuration	Remote Control	Auto Video Recording	Maintenance	Firmware Update										
<h3>RADIUS Settings</h3> <p>Check the box below to enable RADIUS authentication and enter the required information to access the RADIUS server. Press the Save button to save your changes.</p> <table><tr><td>RADIUS Authentication</td><td><input type="checkbox"/> Enable</td></tr><tr><td>Port</td><td><input type="text" value="1812"/></td></tr><tr><td>Time Out</td><td><input type="text" value="3"/> seconds</td></tr><tr><td>Server Address</td><td><input type="text"/></td></tr><tr><td>Secret</td><td><input type="text"/></td></tr></table>								RADIUS Authentication	<input type="checkbox"/> Enable	Port	<input type="text" value="1812"/>	Time Out	<input type="text" value="3"/> seconds	Server Address	<input type="text"/>	Secret	<input type="text"/>
RADIUS Authentication	<input type="checkbox"/> Enable																
Port	<input type="text" value="1812"/>																
Time Out	<input type="text" value="3"/> seconds																
Server Address	<input type="text"/>																
Secret	<input type="text"/>																

2.4.13 Remote Session

This page is used to configure virtual media configuration settings for the next redirection session.

Dashboard	FRU Information	Server Health	Configuration	Remote Control	Auto Video Recording	Maintenance	Firmware Update
-----------	-----------------	---------------	---------------	----------------	----------------------	-------------	-----------------

Configure Remote Session

This page is used to configure virtual media configuration settings for the next redirection session.

Virtual Media Attach Mode

Auto Attach	▼
Attach	
Auto Attach	

2.4.14 SMTP

This page is used for managing SMTP settings of the device.

Dashboard	FRU Information	Server Health	Configuration	Remote Control	Auto
-----------	-----------------	---------------	---------------	----------------	------

SMTP Settings

Manage SMTP settings of the device.

Sender Address

Machine Name

Primary SMTP Server

SMTP Support ☒ Enable

Server Address

☐ SMTP Server requires Authentication

User Name

Password

Secondary SMTP Server

SMTP Support ☒ Enable

Server Address

☐ SMTP Server requires Authentication

User Name

Password

2.4.15 SSL

SSL provides communication security over the Internet. It is an entity that issues digital certificates. The digital certificate certifies the ownership of a public key by the named subject of the certificate. It is a trusted third party that is trusted by both the subject (owner) of the certificate and the party relying upon the certificate.



There are 3 tabs here.

- Upload SSL
- Generate SSL
- View SSL

If you choose to generate a new SSL, click on the Generate SSL tab, in which you will fill in the details such as Common Name, Organization Name, etc., in order to create a new one. After that, click the **Generate** button.

SSL Certificate Configuration

This page is used to configure SSL certificate into the BMC. Using this, the device can be accessed in a secure way. The option is used to view the uploaded SSL certificate in readable format.

Upload SSL	Generate SSL	View SSL
Common Name(CN)		
<input type="text"/>		
Organization(O)		
<input type="text"/>		
Organization Unit(OU)		
<input type="text"/>		
City or Locality(L)		
<input type="text"/>		
State or Province(ST)		
<input type="text"/>		
Country(C)		
<input type="text"/>		
Email Address		
<input type="text"/>		
Valid for	<input type="text"/>	days
Key Length	512	bits
<input type="button" value="Generate"/>		

View SSL:

Dashboard	FRU Information	Server Health	Configuration	Remote Control	Auto Video Recording	Maintenance	Firmware Update
Upload SSL	Generate SSL	View SSL					
Basic Information							
Version		3					
Serial Number		9FF7DADC544345C2					
Signature Algorithm		sha1WithRSAEncryption					
Public Key		(1024 bit)					
Issued From							
Common Name(CN)		AMI					
Organization(O)		American Megatrends Inc.					
Organization Unit(OU)		Service Processors					
City or Locality(L)		Atlanta					
State or Province(ST)		Georgia					
Country(C)		US					
Email Address		support@ami.com					
Validity Information							
Valid From		Sep 12 09:36:47 2008 GMT					
Valid To		Jan 25 09:36:47 2010 GMT					
Issued To							
Common Name(CN)		AMI					
Organization(O)		American Megatrends Inc.					

2.4.16 System and Audit Log Settings

Use this page to enable and configure logging of system events below. Or, you can enable/disable logging of audit events. Press the “**Save**” button to save your changes.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

System and Audit Log Settings

Enable and configure logging of system events below. Or you can enable/disable logging of audit events. Press the Save button to save your changes.

System Log	<input checked="" type="checkbox"/> Enable
Log Type	<input checked="" type="radio"/> Local Log <input type="radio"/> Remote Log
File Size (in bytes)	<input type="text" value="50000"/>
Rotate Count	<input type="text" value="0"/>
Server Address	<input type="text"/>
Audit Log	<input checked="" type="checkbox"/> Enable

2.4.17 Users

Dashboard
Firmware Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

admin (Administrator)
Refresh
Print
Logout
HELP

User Management

The list below shows the current list of available users. To delete or modify a user, select their name in the list and press "Delete User" or "Modify User". To add a new user, select an unconfigured slot and press "Add User".

Number of configured users: 3

UserID	Username	User Access	Network Privilege	SNMP Status	Email ID
1	anonymous	Disabled	Administrator	Disabled	-
2	admin	Enabled	Administrator	Disabled	-
3	chesterg	Enabled	Administrator	Disabled	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-

Add User
Modify User
Delete User

Modify User

Username

anonymous

Change Password

☐ Change Password

Password Size

☐ 16 Bytes
☐ 20 Bytes

Password

Confirm Password

User Access

☐ Enable

Network Privilege

Administrator

SNMP Status

☐ Enable

SNMP Access

Read Only

Authentication Protocol

SHA

Privacy Protocol

DES

Email ID

Email Format

AMI-Format

Uploaded SSH Key

Not Available

New SSH Key

Modify

Cancel

2.4.18 Virtual Media

The following option allows to configure virtual media devices.

[Dashboard](#) [FRU Information](#) [Server Health](#) [Configuration](#) [Remote Control](#) [Auto Video Recor](#)

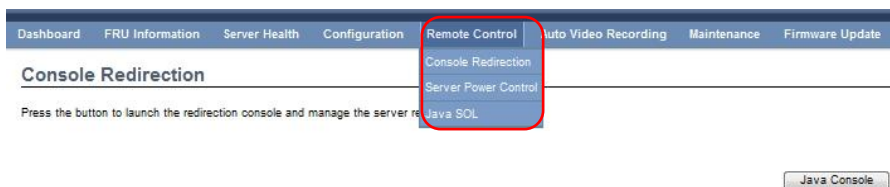
Virtual Media Devices

The following option will allow to configure virtual media devices.

Floppy devices	<input type="text" value="1"/> ▼
CD/DVD devices	<input type="text" value="1"/> ▼
Harddisk devices	<input type="text" value="1"/> ▼
SD Media Support	<input checked="" type="checkbox"/> Enable

2.5 Remote Control

The **Remote Control** page allows you to configure settings, such as Console Redirection, Server Power Control and Java SOL.



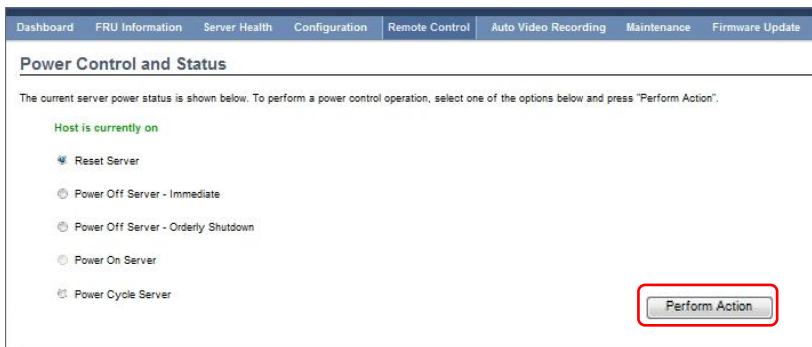
2.5.1 Console Redirection

You may press the “**Java Console**” button to launch the redirection console and manage the server remotely.



2.5.2 Server Power Control

The current server power status is shown below. To perform a power control operation, select one of the options below and press “**Perform Action**”.



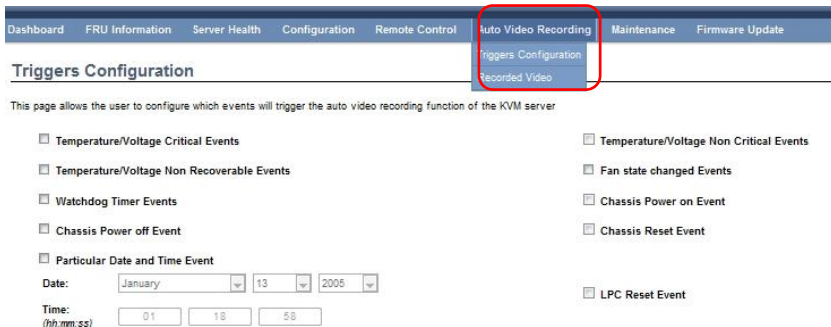
2.5.3 Java SOL

Press the button to launch the Java SOL.



2.6 Auto Video Recording

The **Auto Video Recording** page allows you to configure settings, such as Triggers Configuration and Recorded Video.



Triggers Configuration

This page allows the user to configure which events will trigger the auto video recording function of the KVM server

<input type="checkbox"/> Temperature/Voltage Critical Events	<input type="checkbox"/> Temperature/Voltage Non Critical Events
<input type="checkbox"/> Temperature/Voltage Non Recoverable Events	<input type="checkbox"/> Fan state changed Events
<input type="checkbox"/> Watchdog Timer Events	<input type="checkbox"/> Chassis Power on Event
<input type="checkbox"/> Chassis Power off Event	<input type="checkbox"/> Chassis Reset Event
<input type="checkbox"/> Particular Date and Time Event	<input type="checkbox"/> LPC Reset Event

Date:

Time:
(hh:mm:ss)

2.6.1 Triggers Configuration

This page allows the user to configure which events will trigger the auto recording function of the KVM server.

Dashboard
FRU Information
Server Health
Configuration
Remote Control
Auto Video Recording
Maintenance
Firmware Update

Triggers Configuration

This page allows the user to configure which events will trigger the auto video recording function of the KVM server

☐ Temperature/Voltage Critical Events
☐ Temperature/Voltage Non Recoverable Events
☐ Watchdog Timer Events
☐ Chassis Power off Event
☐ Particular Date and Time Event

☐ Temperature/Voltage Non Critical Events
☐ Fan state changed Events
☐ Chassis Power on Event
☐ Chassis Reset Event
☐ LPC Reset Event

Date:
January
13
2005

Time:
01
19
22

2.6.2 Recorded Video

Below shows the list of available recorded video files on the BMC. Select a video and press “Play Video” button to play the video. Select a video and press the “Download” button to download and save the video. Press the “Delete” button to delete the selected video.

(note: the number of available video files are “0”, therefore no video can be selected)



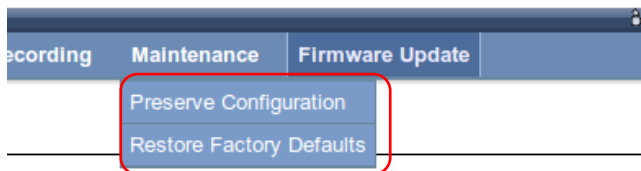
Play Video

Download

Delete

2.7 Maintenance

The **Maintenance** page allows you to configure settings, such as Preserve Configuration, Restore Factory Defaults and System Administrator.



se 'Protocol Configuration' under Firmware Update menu.

in widgets will be closed automatically. If upgrade process is cancelled in

2.7.1 Preserve Configuration

This page allows the user to configure items, which will be used by the Restore Factory Defaults to preserve the existing configuration without overwriting with default configuration.

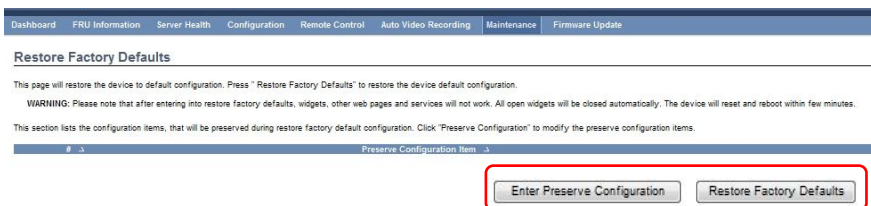
This page allows you to go to **Firmware Update** or **Restore Factory Defaults**.



2.7.2 Restore Factory Defaults

This page will restore the device to default configuration. Press **“Restore Factory Defaults”** to restore the device default configuration.

This section lists the configuration items that will be preserved during restore factory default configuration. Click **“Preserve Configuration”** to modify the preserve configuration items.



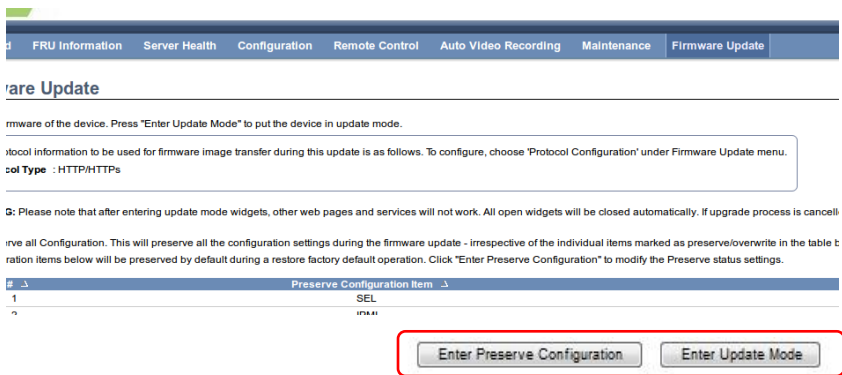
Warning: Please be noted that after entering into factory defaults, some functions like widgets, other web pages and services will not work. All open widgets will be closed automatically. The device will reset and reboot within few minutes.

2.8 Firmware Update

The **Firmware Update** page allows you to configure and update Firmware.

Update firmware of the device. Press **“Enter Update Mode”** to put the device in update mode.

All configuration items below will be preserved by default during a restore factory default operation. Click **“Enter Preserve Configuration”** to modify the Preserve Status settings.



Firmware Update

Firmware of the device. Press "Enter Update Mode" to put the device in update mode.

Protocol information to be used for firmware image transfer during this update is as follows. To configure, choose 'Protocol Configuration' under Firmware Update menu.

Protocol Type : HTTP/HTTPS

Note: Please note that after entering update mode widgets, other web pages and services will not work. All open widgets will be closed automatically. If upgrade process is cancelled, all Configuration will be preserved by default during a restore factory default operation. Click "Enter Preserve Configuration" to modify the Preserve status settings.

Item	Preserve Configuration Item
1	SEL

1/28 41

Enter Preserve Configuration **Enter Update Mode**